



SUPERNOVA II

The return of the Synthesiser

SUPERNOVA II

The ultimate performance, live or in the studio

Instinctive synthesis

Welcome back to real synthesis. The Supernova II does what all synthesisers should do. It makes it easy to create incredible, never-heard-before sounds.

Sure, you have capacity for more than 1,000 Programs and over 500 multi-program voice Performances. But they are there to inspire you, not restrict you. With the Supernova II's elegantly organised banks of knobs and sliders, you can use them all as the stepping stones to total freedom of expression.

Common sense has been designed into the Supernova II from the beginning. Whatever you want to do to a sound, a twist or a touch gives you an instinctive response, with the display telling you exactly what is happening. At last, the technology is on your side – and not fighting against you with endless unfathomable menus.

Music, live or in the studio, is the most expressive of art forms. With the Supernova II, your musical creativity is released in all its spontaneous, wild and meticulously crafted expressive power.



SUPERNOVA II series specification

Synthesis System Polyphony

Analogue Sound Modelling.
24 Voice (expandable) for the standard Supernova II Keyboard or Rack.
36 Voice (expandable) for the Supernova II Pro Keyboard or Rack.
48 Voice for the Supernova II ProX Keyboard or Rack.

Sound Sources per Voice

3 Oscillators, 2 Ring Modulators and a Noise Generator. Up to 6 Oscillators can be generated with no loss of polyphony when the special Double Saw waveform is used.
8 different FM routings are possible, with the full power of the Mod Matrix capable of modulating each of the three FM nodes.

FM capabilities

Modulation Matrix Multitimbral capacity Filter

Comprehensive Modulation Matrix with 130 possible routings.
8 Part multitimbral.
12, 18 and 24 dB per octave resonant Filter configurable in Low Pass, High Pass and Band Pass modes, plus 9 special dual type filters with modulatable frequency separation. All filters also feature an overdrive control, capable of effects from subtle saturation to dirty overdrive. Filter Bypass mode allows noise to be independently filtered and is ideal for the creation of drum sounds.

LFOs

Envelopes

Program Effects

Total number of Effects

2 LFOs capable of oscillating at Audio rates. Syncable to MIDI Clock and sleuable with LFO Delay assignable to fade in or fade out characteristics.

3 Envelopes. 1 x ADSR and 2 x D (Delay) ADSR types. All have loopable AD stages and sustain time and sustain rate features. ADR tracking and level tracking are also provided for each Envelope. Distortion, Comb Filter, EQ, Reverb, Chorus / Flanger / Phaser / Ensemble / Rotary Speaker, Delay and Panning effects for each Program.

Vocoder

Effects Configurations

Number of Outputs

Number of Inputs

Number of Programs

Number of Drum Programs

Number of Drum Maps

Number of Performances

Number of Favourites*

Master Keyboard Functions*

57 Effects available simultaneously - 7 Effects for each of the 8 Parts of a Performance or Program, plus 1 global 42 Band Vocoder. Yes you can have a different Reverb on each part, a different Delay on each Part, a different Chorus etc.

42 Band Vocoder with Sibilance modes and Spectrum Analyser.

18 different effects configurations available on each Part of a Performance or Program. Realtime morphing between effects configurations is also possible.

8 assignable polyphonic Outputs with high quality DACs for each Output.

2 assignable Inputs with high quality ADCs.

1,024 Programs in 8 banks (512 are pre-programmed with factory sounds).

400 (392 drum sound Programs and 8 drum effects Programs).

8 drum maps of 49 Programs each (4 are pre-programmed with factory sounds).

512 Performances in 4 banks (256 are pre-programmed with factory sounds).

128 Favourites in 1 bank.

8 Part master keyboard functions, with programmable Volume, Program, Bank, Transposition, Velocity and Keyboard windows per Part.

Arpeggiator

Built in Arpeggiator with 128 preset polyphonic and 128 preset monophonic patterns. In addition, there are 384 user-programmable Arpeggiators: 192 monophonic, 192 polyphonic.
8 Arpeggiators available simultaneously in Performance mode.

Control

Operating System

Power Requirement

MIDI

Keyboard*

Dimensions

All knobs, switches and parameters transmit MIDI Controllers and NRPNs.

Flash upgradable operating system via MIDI. Free as a MIDI file on our Web Site.

Multi-Voltage built-in power supply. 90V to 260V. 40 Watts.

In / Out / Thru.

5 octave semi-weighted velocity-sensitive action with Aftertouch.

Keyboard version - Width 1,018mm. Depth 330mm. Max Height including knobs 112mm.

Rack version - 3U rackmount. Width 483 mm. Depth including knobs 222mm. Height 133mm.

Keyboard version - 10kg. Rack version - 5kg.

SIEX12 provides an additional 12 voices

SIEX24 provides an additional 24 voices

* Keyboard version only.

Specification subject to change without prior notice. Release dates of improved Operating Systems are at the discretion of Novation EMS Ltd.

For further information contact:

Novation EMS Ltd. A4 Westacott Business Centre, Maidenhead Office Park, Maidenhead, Berkshire, England SL6 3RT
Telephone: +44 (0) 1628 828888 Fax: +44 (0) 1628 825599 E-Mail: sales@novationuk.com www.novationuk.com
Novation USA LTD, Int. Toll-free Tel: 011 - 800 - NOVATION (6682-8466) E-mail: salesusa@novationusa.com Web:www.novationusa.com

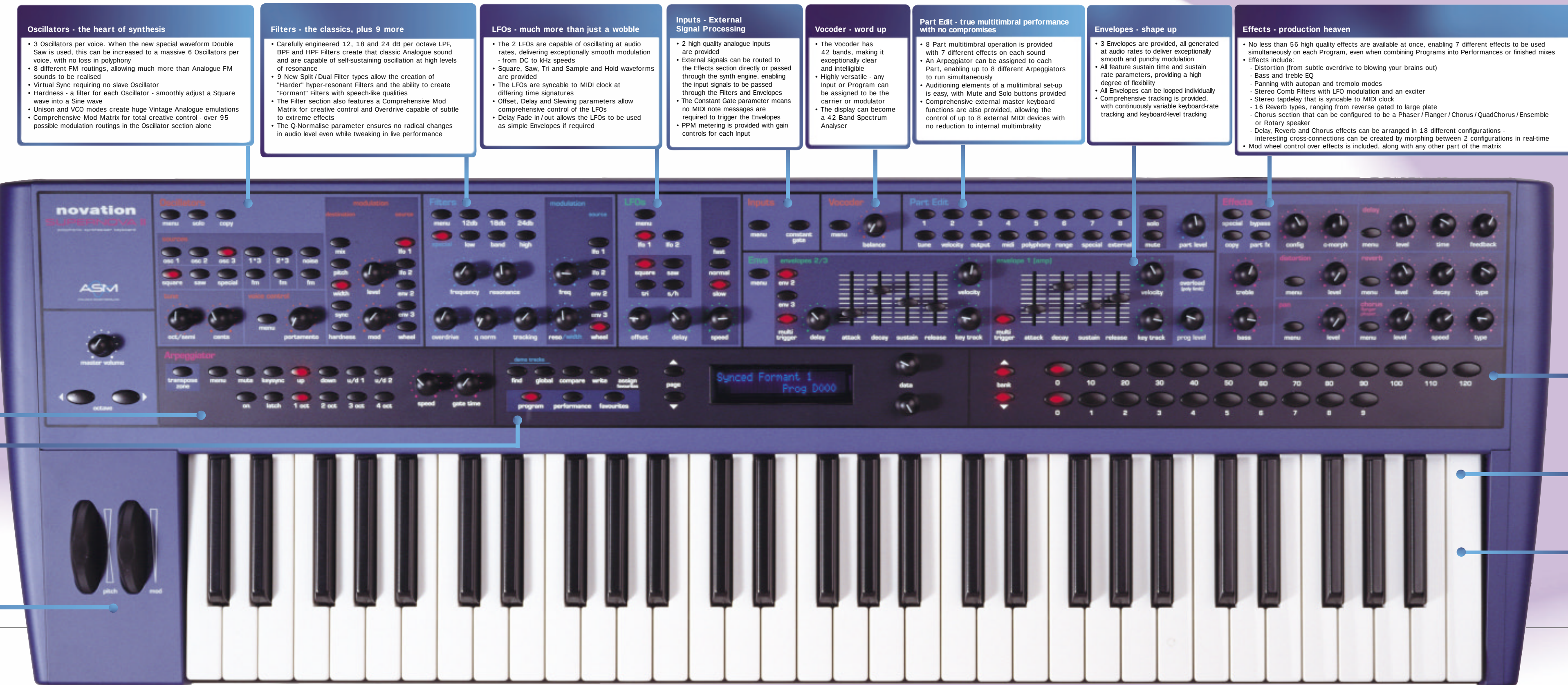


More raw synthesis power than ever before is packed into the heart of the Supernova II keyboard and rack module. It is this massive processing capacity that makes the Supernova II so easy to use, while sweeping away the boundaries to your musical expression.

Whether you are crafting a specific sound in the studio or looking for an immediate response on stage, the Supernova II works with you to create sounds of superb quality and intensity. And the finishing touch comes from the exquisite semi-weighted keyboard (with Aftertouch), which makes playing the Supernova II a uniquely sensual and expressive experience.



SUPERNOVA II The return of the Synthesiser



Oscillators - the heart of synthesis

- 3 Oscillators per voice. When the new special waveform Double Saw is used, this can be increased to a massive 6 Oscillators per voice, with no loss in polyphony
- 8 different FM routings, allowing much more than Analogue FM sounds to be realised
- Virtual Sync requiring no slave Oscillator
- Hardness - a filter for each Oscillator - smoothly adjust a Square wave into a Sine wave
- Unison and VCO modes create huge Vintage Analogue emulations
- Comprehensive Mod Matrix for total creative control - over 95 possible modulation routings in the Oscillator section alone

Filters - the classics, plus 9 more

- Carefully engineered 12, 18 and 24 dB per octave LPF, BPF and HPF Filters create that classic Analogue sound and are capable of self-sustaining oscillation at high levels of resonance
- 9 New Split / Dual Filter types allow the creation of "Harder" hyper-resonant Filters and the ability to create "Formant" Filters with speech-like qualities
- The Filter section also features a Comprehensive Mod Matrix for creative control and Overdrive capable of subtle to extreme effects
- The Q-Normalise parameter ensures no radical changes in audio level even while tweaking in live performance

LFOs - much more than just a wobble

- The 2 LFOs are capable of oscillating at audio rates, delivering exceptionally smooth modulation
- From DC to kHz speeds
- Square, Saw, Tri and Sample and Hold waveforms are provided
- The LFOs are syncable to MIDI clock at differing time signatures
- Offset, Delay and Slewing parameters allow comprehensive control of the LFOs
- Delay Fade in / out allows the LFOs to be used as simple Envelopes if required

Inputs - External Signal Processing

- 2 high quality analogue inputs are provided
- External signals can be routed to the Effects section directly or passed through the synth engine, enabling the input signals to be passed through the Filters and Envelopes
- The Constant Gate parameter means no MIDI note messages are required to trigger the Envelopes
- PPM metering is provided with gain controls for each input

Vocoder - word up

- The Vocoder has 42 bands, making it exceptionally clear and intelligible
- Highly versatile - any input or Program can be assigned to be the carrier or modulator
- The display can become a 42 Band Spectrum Analyser

Part Edit - true multitimbral performance with no compromises

- 8 Part multitimbral operation is provided with 7 different effects on each sound
- An Arpeggiator can be assigned to each Part, enabling up to 8 different Arpeggiators to run simultaneously
- Additioning elements of a multitimbral set-up is easy, with Mute and Solo buttons provided
- Comprehensive external master keyboard functions are also provided, allowing the control of up to 8 external MIDI devices with no reduction to internal multitimbrality

Envelopes - shape up

- 3 Envelopes are provided, all generated at audio rates to deliver exceptionally smooth and punchy modulation
- All feature sustain time and sustain rate parameters, providing a high degree of flexibility
- All Envelopes can be looped individually
- Comprehensive tracking is provided, with continuously variable keyboard-rate tracking and keyboard-level tracking

Effects - production heaven

- No less than 56 high quality effects are available at once, enabling 7 different effects to be used simultaneously on each Program, even when combining Programs into Performances or finished mixes
- Effects include:
 - Distortion (from subtle overdrive to blowing your brains out)
 - Bass and treble EQ
 - Panning with autopan and tremolo modes
 - Stereo Comb Filters with LFO modulation and an exciter
 - Stereo tapdelay that is syncable to MIDI clock
 - 16 Reverb types, ranging from reverse gated to large plate
 - Chorus section that can be configured to be a Phaser / Flanger / Chorus / QuadChorus / Ensemble or Rotary speaker
 - Delay, Reverb and Chorus effects can be arranged in 18 different configurations - interesting cross-connections can be created by morphing between 2 configurations in real-time
 - Mod wheel control over effects is included, along with any other part of the matrix

Arpeggiator - more like a sequencer?

- This is one of the most comprehensive Arpeggiator sections ever created
- Alongside all the normal options, the Arpeggiator also features a staggering 128 preset monophonic, 128 preset polyphonic and 384 user patterns
- Patterns can be up to 64 steps long and velocity, gate time and glides can be set for every step

Mode Section - the musician's palette

- 1,024 user-writable Program locations arranged in 8 banks, with a Find function to help you search for sounds by category
- 512 Performances (comprising up to 8 Programs together)
- 128 Favourites, where your preferred Programs, Performances or even Arpeggiator patterns can be stored in whatever order you choose for use during live performance
- Bright, high contrast fluorescent Display

Pitch & Modulation Wheels - the synthesiser's whammy bars

- Pitch Bend and Mod wheels are integrated into the synthesis engine, allowing much more than simple pitchbend and vibrato to be realised
- The Mod wheel is included in both the Oscillator and Filter Mod Matrices and has individual control over 109 different parameters

Inputs and Outputs - the butt stops here

The Supernova II keyboard series features no less than 8 high quality individual analogue Outputs, providing +4dbm studio level output. In addition, 2 high quality balanced analogue inputs accept signal levels ranging from -60dbm to +8dbm. These can also act as footswitch inputs. There is also a dedicated expression pedal / footswitch input and a headphones Output, together with an additional expansion slot for an optional SPDIF / ADAT I / O expansion card.

Keypad - a performance breeze

- The unique keypad allows the rapid and easy selection of sounds during performance
- Sounds can be selected in two keypresses, eg 127 = 120 + 7
- Even one keypress may be enough; to move to 126 from 127, just enter 6

Drum Banks - the percussion department

- 400 dedicated drum Programs are provided
- 8 drum kits of 49 sounds each can be accessed on the keyboard simultaneously
- A special Filter mode allows noise to be filtered separately so that the snappy elements of drum sounds can be processed exclusively, allowing snares, toms etc to be realised easily

Keyboard - the expressive experience

- The Supernova II Keyboard features a superb semi-weighted action with long throw keys and Aftertouch, creating the most expressive synth experience around
- Comprehensive master keyboard control over external modules

Expansion Cards - need more voices?

The Supernova II and Supernova II Pro Keyboard and Rack versions can be equipped with additional voices by installing optional expansion cards. Two types of expansion card are available:

- SIEX12 provides 12 additional voices
- SIEX24 provides 24 additional voices

To upgrade a Supernova II to a Supernova II Pro (with 36 voices), add the SIEX12. To upgrade a Supernova II to a Supernova II Pro X (with 48 voices), add the SIEX24.

Note: Expanding a Supernova II Pro to a Pro X requires removing the installed SIEX12 card from the Pro and replacing it with the SIEX24 card.